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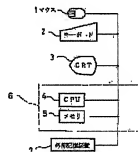
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(54) THREE-DIMENSIONAL TOPOGRAPHY OUTPUT METHOD AND DEVICE AND RECORDING MEDIUM

(57)Abstract:

PROBLEM TO BE SOLVED: To show a cliff part of a coastline by outputting a topography based on the elevation value of both land and sea sides that are decided for each apex of a polygonal line showing the coastline.

SOLUTION: A CPU 4 reads data on a grid point and its elevation value, a string of apexes of a polygonal line showing the coastline, the color information, the light reflection coefficient, a texture pattern, etc., out of an external storage 7 and write them in a memory 5. Then the CPU 4 calculates an intersecting point between a mesh having a grid point as its apex and the polygonal line of the coastline and also divides every polygon divided into plural areas by the coastline included in the mesh into triangles having the grid points as their apexes. The elevation value of the land side is calculated based on the elevation value of four apexes of the coastline mesh including the apex of the coastline and via the geometric linear interpolation. Furthermore, The CPU 4 draws the polygons of both land and sea and the polygon of a cliff based on the difference between the land elevation value of the decided apex of the coastline and the sea elevation value having an elevation of 0. Thus, the three-dimensional topography approximate to the actual one can be obtained.



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